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1 Robustness: Defensive programming: using an annotation toolkit to build DoS-resistant ■
       software
       Xiaohu Qie, Ruoming Pang, Larry Peterson
       December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

       Full text available: 🔲 pdf(2.13 MB)   Additional Information: full citation, abstract, references

       This paper describes a toolkit to help improve the robustness of code against DoS attacks.
       We observe that when developing software, programmers primarily focus on functionality.
       Protecting code from attacks is often considered the responsibility of the OS, firewalls and
       intrusion detection systems. As a result, many DoS vulnerabilities are not discovered until
       the system is attacked and the damage is done. Instead of reacting to attacks after the fact,
       this paper argues that a better solution i ...

2 An Internet-based negotiation server for e-commerce   ■
       Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang,
       Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam
       August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,
               Volume 10 Issue 1

       Full text available: 🔲 pdf(355.19 KB)   Additional Information: full citation, abstract, index terms

       This paper describes the design and implementation of a replicable, Internet-based
       negotiation server for conducting bargaining-type negotiations between enterprises involved
       in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or
       participants of a complex supply chain engaged in purchasing, planning, and scheduling.
       Multiple copies of our server can be installed to complement the services of Web servers.
       Each enterprise can install or select a trusted negotia ...

       Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce,
       Negotiation policy and strategy, Negotiation protocol

3 Application level performance: Analyzing the browse patterns of mobile clients   ■
       Atul Adya, Paramvir Bahl, Lili Qiu
       November 2001 **Proceedings of the First ACM SIGCOMM Workshop on Internet
               Measurement**

       Full text available: 🔲 pdf(1.00 MB)   Additional Information: full citation, abstract, references, citings, index
                                                                      terms

       We study the dynamics of a large popular commercial Web site designed specifically for

users who access it via their cell-phones and PDAs. Unlike most previous Web studies that have analyzed accesses seen by proxies and servers from clients connected via the wired network, we focus primarily on client accesses made over wireless channels and made for downloading content on small devices for offline browsing. We carry out user-behavior analysis as users authenticate themselves before accessing an ...

4 Features: Caching XML Web Services for Mobility
May 2003 **Queue**, Volume 1 Issue 3
Full text available: pdf(311.20 KB)   Additional Information: full citation
html(35.15 KB)

5 Geospatial mapping and navigation of the web
Kevin S. McCurley
April 2001 **Proceedings of the tenth international conference on World Wide Web**
Full text available: pdf(1.06 MB)   Additional Information: full citation, references, citings, index terms

Keywords: browsers, geographic information systems, geospatial information retrieval, navigation

6 DTL's DataSpot: database exploration as easy as browsing the Web...
Shaul Dar, Gadi Entin, Shai Geva, Eran Palmon
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2
Full text available: pdf(413.40 KB)   Additional Information: full citation, abstract, references, index terms

DTL's DataSpot is an advanced, programming-free tool that lets Web designers and database developers automatically publish their databases for Web browser access. DataSpot enables non-technical end users to explore a database using free-form plain language queries combined with hypertext navigation, in a fashion similar to using search engines such as Alta Vista to search text files on the Internet. DataSpot is based on a novel representation of data in the form of a schema-less ...

Keywords: Internet, database publishing, navigation, search

7 Silk from a sow's ear: extracting usable structures from the Web
Peter Pirolli, James Pitkow, Ramana Rao
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**
Full text available: pdf(1.26 MB)   Additional Information: full citation, references, citings, index terms
html(35.72 KB)

Keywords: World Wide Web, hypertext, information visualization

8 Web mining and its SQL based parallel execution
Masaru Kitsuregawa, Takahiko Shintani, Iko Pramudiono
January 2001 **Australian Computer Science Communications**, Volume 23 Issue 6
Full text available: pdf(674.03 KB)

⬤ Publisher Site   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Web mining can be classified into two categories, Web access log mining and Web structure mining. We performed association rule mining and sequence pattern mining against the access log which was accumulated at NTT Software Mobile Info Search portal site. Detail web log mining process and the rules we derived are reported in this paper. The parallel association rule mining is explored on large scale PC cluster system. Parallelism is key to improve the performance. We achieved substantial speed u ...

9 Position papers: The *trading function* in action ■

Bruce Jacob, Trevor Mudge

September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications**

Full text available: ⬤ <u>pdf(653.53 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper describes a commercial software and hardware platform for telecommunications and multimedia processing. The software architecture loosely follows the CORBA and ODP standards of distributed computing and supports a number of application types on different hardware configurations. This paper is the result of lessons learned in the process of designing, building, and modifying an industrial telecommunications platform. In particular, the use of the trading function in the design of the s ...

10 Asynchronous information space analysis architecture using content and structure- ■ based service brokering

Ke-Thia Yao, In-Young Ko, Ragy Eleish, Robert Neches

June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: ⬤ <u>pdf(470.15 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Our project focuses on rapid formation and utilization of custom collections of information for groups focused on high-paced tasks. Assembling such collections, as well as organizing and analyzing the documents within them, is a complex and sophisticated task. It requires understanding what information management services and tools are provided by the system, when they appropriate to use, and how those services can be composed together to perform more complex analyses. This paper describes ...

Keywords: asynchronous service access, component architecture, content and structure, data-driven brokering, information analysis, information management, metadata

11 Embedded systems: applications, solutions and techniques (EMBS): Code generation ■ techniques for developing light-weight XML Web services for embedded devices

Robert van Engelen

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: ⬤ <u>pdf(404.19 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper presents specialized code generation techniques and runtime optimizations for developing light-weight XML Web services for embedded devices. The optimizations are implemented in the gSOAP Web services development environment for C and C++. The system supports the industry-standard XML-based Web services protocols that are intended to deliver universal access to any networked application that supports XML. With the standardization of the Web services protocols and the availability of t ...

Keywords: Web Services, XML, embedded systems, networking

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12 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available: pdf(2.90 MB)   Additional Information: full citation, abstract, references, index terms

iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

13 Move to component based architectures: introducing Microsoft's .NET platform into the college classroom

Meg Murray

January 2004 **The Journal of Computing in Small Colleges**, Volume 19 Issue 3

Full text available: pdf(45.40 KB)   Additional Information: full citation, abstract, references, index terms

A transformation has been occurring in the architectural model for computer-based application intense software systems. This new model, software-as-a-service, will have a profound impact on the design and development of software for many years to come and as such college level computing curriculums will need to incorporate the concepts and methodologies associated with this new architecture. The platform is built upon a view of interrelated, distributed peer-level software modules and components ...

14 XML query processing I: Dynamic XML documents with distribution and replication

Serge Abiteboul, Angela Bonifati, Grégory Cobéna, Ioana Manolescu, Tova Milo

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**

Full text available: pdf(209.06 KB)   Additional Information: full citation, abstract, references, index terms

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly while other parts are given only intensionally by means of embedded calls to web services that can be called to generate the required information. By the sole presence of Web services, dynamic documents already include inherently some form of di ...

15 A multi-agent system for automated genomic annotation

Keith Decker, Xiaojing Zheng, Carl Schmidt

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available: pdf(177.11 KB)   Additional Information: full citation, abstract, references, index terms

Massive amounts of raw data are currently being generated by biologists while sequencing organisms. Outside of the largest, high-profile projects such as the Human Genome Project, most of this raw data must be analyzed through the piecemeal application of various computer programs and searches of various public web databases. Due to the inexperience and lack of training, both the raw data and any valuable derived knowledge will remain generally unavailable except in published textual forms ...

Keywords: information agents, lessons learned from deployed agents

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16 New Products
Michael K. Johnson
June 1994 **Linux Journal**

Full text available: 🔲 html(2.85 KB)   Additional Information: full citation, references, index terms

17 Papers: A taxonomy of web search
Andrei Broder
September 2002 **ACM SIGIR Forum**, Volume 36 Issue 2

Full text available: 🔲 pdf(202.87 KB)   Additional Information: full citation, abstract, references, citings

Classic IR (information retrieval) is inherently predicated on users searching for information, the so-called "information need". But the need behind a web search is often not informational -- it might be navigational (give me the url of the site I want to reach) or transactional (show me sites where I can perform a certain transaction, e.g. shop, download a file, or find a map). We explore this taxonomy of web searches and discuss how global search engines evolved to deal with web-specific need ...

18 WebViews: accessing personalized web content and services
Juliana Freire, Bharat Kumar, Daniel Lieuwen
April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: 🔲 pdf(305.83 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Web clipping, content transcoding, dynamic content, electronic commerce, information delivery, personalization, smart bookmarks, voice interfaces, wrappers

19 CPUs unite!
Aaron Weiss
June 2000 **netWorker**, Volume 4 Issue 2

Full text available: 🔲 pdf(624.42 KB)   Additional Information: full citation, index terms

20 Proceedings - only: Towards a real-world wide web
Tim Kindberg, John Barton
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: 🔲 pdf(39.11 KB)   Additional Information: full citation, abstract, references

As computer hardware shrinks and lightens and as communications becomes cheaper and more widely available, we have new opportunities for software systems to support *nomadic* users of *ubiquitous* or *pervasive* computing services [16, 24]. We are interested in systems that support interaction with the physical world wherever users happen to be. More and more things in the physical world, such as our cars and domestic appliances, are becoming "smart". Users need a convenient frame ...

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